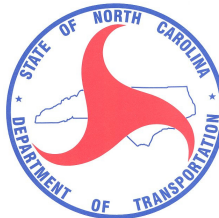


ANNUAL REPORT FOR 2010



**Pig Basket Creek Mitigation Site
Nash County
TIP No. B-3876**



Prepared By:
Natural Environment Unit & Roadside Environmental Unit
North Carolina Department of Transportation
September 2010

TABLE OF CONTENTS

SUMMARY	1
1.0 Introduction	2
.1 Project Description	2
.2 Purpose	2
.3 Project History	2
.4 Debit Ledger.....	3
2.0 Vegetation:	4
.1 Success Criteria	4
.2 Description of Species.....	4
.3 Results of Vegetation Monitoring	4
.4 Conclusions.	4
3.0 Overall Conclusions and Recommendations	4

FIGURES

Figure 1 – Site Location Map	5
------------------------------------	---

APPENDICES

Appendix A – Site Photos	
--------------------------	--

SUMMARY

The Pig Basket Creek Mitigation Site is located in Nash County. The site was planted in December 2008 and was designed as mitigation for wetland impacts associated with bridge project B-3876.

The mitigation encompasses approximately 0.52 acres of wetland restoration, including 0.22 acres at Site 4 and 0.30 acres at Site 5. The roadway project will impact 0.13 acres of unavoidable wetlands, leaving approximately 0.39 acres of wetland restoration assets onsite. The restoration will involve removing causeway fill from the existing approaches to Bridge No. 34 to match the adjacent wetland elevation. NCDOT will also perform enhancement along 90 feet of stream channel at Site 3 on the UT to Pig Basket Creek by removing existing fill as described above along its right bank and restricting agricultural activities along its left bank. NCDOT shall monitor vegetation success by visual observation and photo documentation and will submit an annual report. NCDOT shall monitor the site for a minimum of three years or until the site is deemed successful.

After the second year of monitoring, the Pig Basket Creek Site shows by visual observation that the planted species are surviving. Vehicular trespass for fishing access noted last year has stopped since NCDOT installed wetland signs along the perimeter.

NCDOT proposes to continue vegetation monitoring at the Pig Basket Creek Mitigation Site.

1.0 INTRODUCTION

1.1 Project Description

The Pig Basket Creek Mitigation Site is located at Bridge No. 34 on SR 1004 over Pig Basket Creek in Nash County (Figure 1). The site consists of approximately 0.52 acres of mitigation for wetland impacts and 90 feet of stream enhancement associated with project B-3876.

1.2 Purpose

In order for a mitigation site to be considered successful, a site must meet vegetation success criteria. This report details the vegetation monitoring in 2010 at the Pig Basket Creek Mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

December 2008	Reforestation Completed
July 2009	Vegetation Monitoring (Year 1)
Summer 2009	Site 4 was mowed
February 2010	Replanted Site 4 Wetland Restoration Area
June 2010	Vegetation Monitoring (Year 2)

1.4 Debit Ledger

Site name	Site TIP	HUC	River Basin	Division	County	Mitigation Type	Notes	As Built Quantity	Available	Debit
Pig Basket Creek	B-3876	3020101	Tar-Pamlico	4	Nash					B-3876
						Riverine Wetland Restoration		0.52	0.39	0.13
						Stream Enhancement		90	0	90

Note: Debit ledger information up to date as of September 28, 2010.

2.0 VEGETATION: PIG BASKET CREEK MITIGATION SITE (YEAR 2 MONITORING)

2.1 Success Criteria

Success Criteria states that NCDOT shall monitor the mitigation site by visual observation and photo points for survival and aerial cover of vegetation. NCDOT shall monitor the site for a minimum of three years or until the site is deemed successful. Monitoring will be initiated upon completion of the site planting.

2.2 Description of Species

The following wetland species were planted in the Wetland Restoration Area:

Liriodendron tulipifera, Tulip Poplar
Platanus occidentalis, Sycamore
Fraxinus pennsylvanica, Green Ash
Quercus nigra, Water Oak
Quercus phellos, Willow Oak
Nyssa aquatica, Water Tupelo

The following wetland species were planted in the Stream Enhancement Area:

Salix nigra, Black Willow

2.3 Results of Vegetation Monitoring

The impacted area where the old bridge and causeway was removed is re-attaining wetland jurisdictional status and the planted species are surviving. Planted species noted surviving included sycamore, water oak, tulip poplar, green ash, water tupelo, and willow oak. Other species noted within the planted area included goldenrod, fennel, *Juncus* sp., ragweed, river birch, sedge, and various grasses. The vehicular trespassing noted last year has stopped since NCDOT installed the wetland signs along the perimeter. Vegetation noted within the stream enhancement area included black willow, red maple, black berry, pokeweed, tag alder, and various herbaceous species.

2.4 Conclusions

There were approximately 0.52 acres of wetland restoration and 90 feet of stream enhancement planted on site. There were no plots established on the site. By visual observation, the Pig Basket Creek Mitigation Site shows that the planted species are surviving and the impacted area is re-attaining wetland jurisdictional status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue vegetation monitoring at the Pig Basket Creek Mitigation Site.

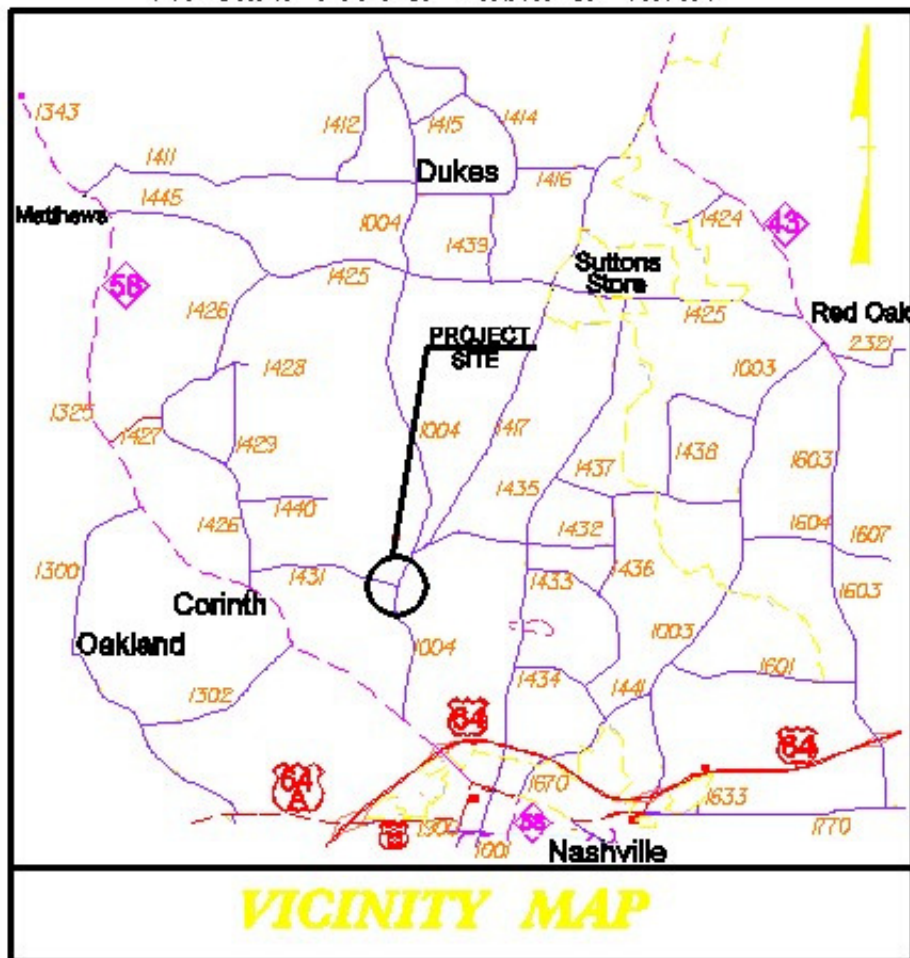


Figure 1. Site Location Map

APPENDIX A

SITE PHOTOS

Pig Basket Creek



Photo 1 (Wetland Restoration-Site 4)



Photo 2 (Wetland Restoration-Site 5)

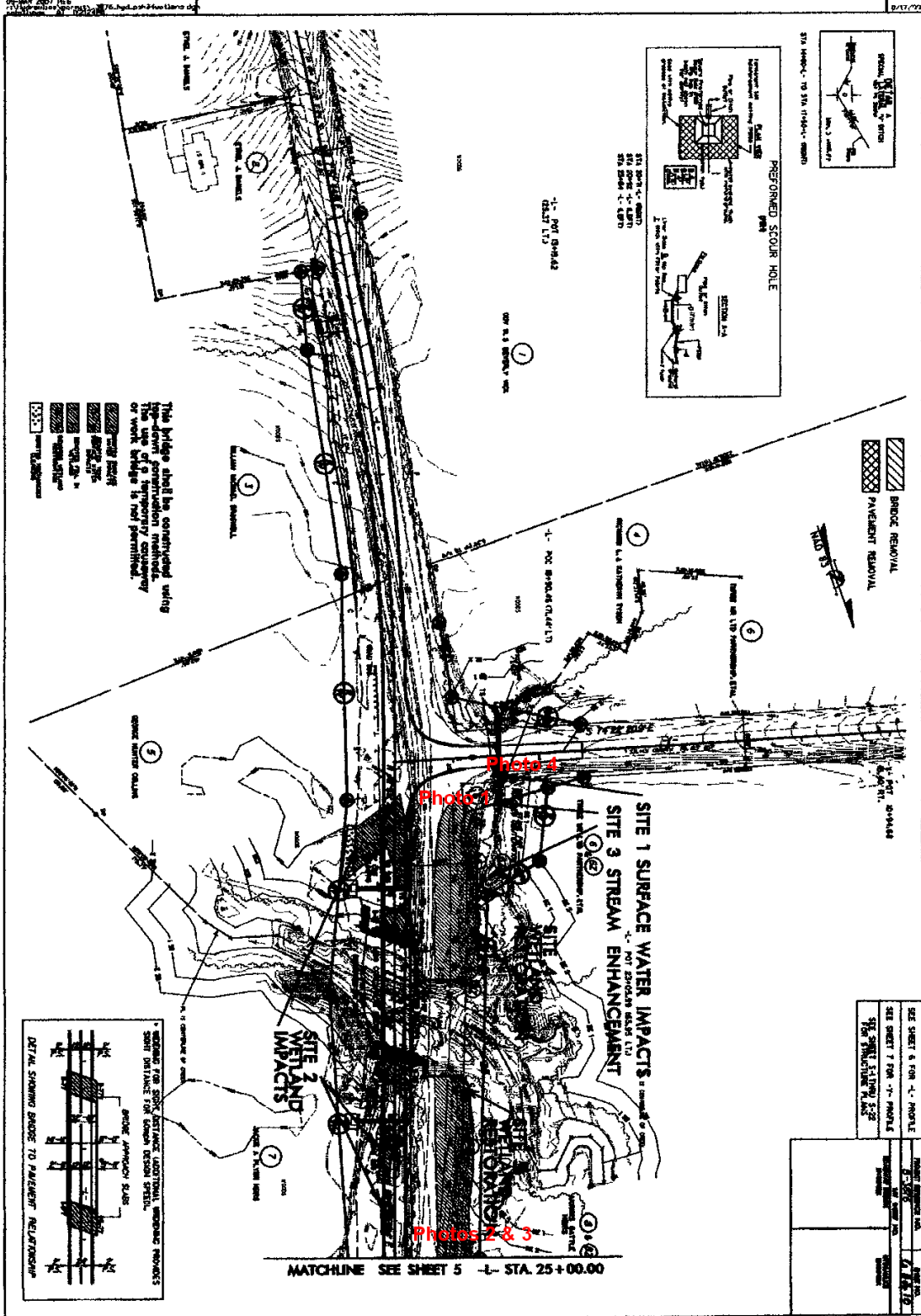


Photo 3 (Wetland Restoration-Site 5)

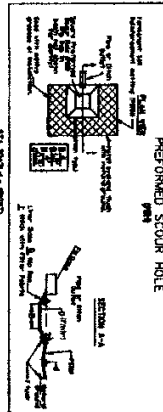


Photo 4 (Stream Enhancement-Site 3)

June 2010



DETAIL SHOWING BRIDGE TO PAVEMENT RELATIONSHIP



PERFORMED SCOUR HOLE



BRIDGE REMOVAL
PAVEMENT REMOVAL

SEE SHEET 6 FOR "A" PROFILE	DATE	BY
SEE SHEET 7 FOR "B" PROFILE	DATE	BY
SEE SHEET 8 FOR "C" PROFILE	DATE	BY

PROJECT NO.	100-1000
DATE	10/1/00
BY	10/1/00
CHK	10/1/00
APP	10/1/00

MATCHLINE SEE SHEET 5 - STA. 25+00.00



⑤

②
JACKIE L. FLYNN

00000

2004

MATCHLINE SEE SHEET 4 - L STA. 25 + 00.00

**SITE 5
WETLAND
RESTORATION**

SEE SHEET 8 FOR "C" PEOPLE	
FEDERAL BUREAU OF INVESTIGATION U. S. DEPARTMENT OF JUSTICE WASHINGTON, D. C. 20535	MAY 1968 7 18 68
SUBJECT: [REDACTED] [REDACTED]	[REDACTED]